| Inde | ex of Claims |
|------|--------------|
|      |              |

| Application No. | Applicant(s)    |    |
|-----------------|-----------------|----|
| 10/602,406      | KOVACH, JAMES A | ٨. |
| Examiner        | Art Unit        |    |
| Bryan R Muller  | 3723            |    |

|   | Rejected | 1 | (Through<br>Cand |
|---|----------|---|------------------|
| : | Allowed  | ÷ | Rest             |

| - | (Through numeral)<br>Cancelled | N |  |
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| ÷ | Restricted                     | ı |  |

Bryan R Muller

Date

| 1 | Non-Elected  | A | Appeal   |
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|   | Interference | 0 | Objected |

| Cla   | im       |          |          |          | [        | Date         | <u>e_</u> |          |  |  |   | Cla   | im       |          |   |   |
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| Final | Original |          |          |          |          |              |           |          |  |  | , | Final | Original |          |   |   |
|       | 1        | 1        |          |          |          |              |           | $\vdash$ |  | -  |   |       | 51       |          |   | _ |
|       |          | 1        |          |          |          |              |           |          | ı  |  |   |       | 51<br>52 |          |   | _ |
|       | 3        | 1        |          |          |          |              |           |          |  |  | i |       | 53       |          |   |   |
|       | 4        | √        |          |          |          |              |           |          |  |  |   |       | 54       |          |   |   |
|       | 5        | 1        |          |          |          |              |           |          |  |  |   |       | 55       |          |   |   |
|       | 6        | 1        |          |          |          |              |           |          |  | _  |   |       | 56       |          |   | L |
|       | 7        | 1        |          | ļ        |          | L.           |           | L        | L_   |  |   |       | 57       |          |   | _ |
|       | 8        | 7        |          | <u> </u> | _        | _            | ļ         | <u> </u> |  | <u> </u>   |   |       | 58       |          |   |   |
|       | 9        |          |          |          |          |              |           | ļ        | _  | _  |   |       | 59       |          |   | _ |
|       | 10<br>11 | 7        |          | -        |          |              |           | ļ        |  | ļ  |   |       | 60       | _        |   |   |
|       | 12       | 1        |          |          | _        | $\vdash$     |           | $\vdash$ | <u> </u>   | ⊢  |   |       | 61<br>62 |          |   | _ |
|       | 13       | 1        |          |          | $\vdash$ | $\vdash$     | $\vdash$  | -        |  | -  |   |       | 63       |          |   | _ |
|       | 14       | 1        |          | $\vdash$ | $\vdash$ | $\vdash$     |           | ┝        | -  | -  |   |       | 64       |          |   |   |
|       | 15       | 1        |          | $\vdash$ | $\vdash$ |              |           | $\vdash$ | -  | $\vdash$   |   |       | 65       |          |   | _ |
|       | 16       | 1        |          | $\vdash$ | $\vdash$ | Н            | $\vdash$  | $\vdash$ |  | <del>                                     </del> |   |       | 66       |          |   |   |
|       | 17       | 1        |          | -        | _        | <del> </del> | _         | $\vdash$ |  | $\vdash$   |   |       | 67       |          | _ |   |
|       | 18       | 1        |          |          | $\vdash$ |              |           | $\vdash$ |  |  |   |       | 68       |          |   | _ |
|       | 19       |          |          |          |          |              |           | -        |  |  |   |       | 69       |          |   |   |
|       | 20       |          |          |          |          |              |           |          |  |  |   |       | 70       |          |   |   |
|       | 21       |          |          |          |          |              |           |          |  |  | ĺ |       | 71       |          |   |   |
|       | 22       |          |          |          |          |              |           |          |  |  |   |       | 72       |          |   |   |
|       | 23       |          |          |          |          |              |           |          |  |  |   |       | 73       |          |   |   |
|       | 24       |          |          | <u></u>  |          | L            | <u> </u>  | <u> </u> |  | <u></u>  |   |       | 74       |          |   |   |
|       | 25       |          |          |          | _        |              |           | <u> </u> |  |  |   |       | 75       |          |   |   |
|       | 26       |          |          | _        |          |              | <u> </u>  |          |  | <u> </u>   |   |       | 76       |          |   |   |
|       | 27       |          | <u> </u> |          |          |              |           | <u> </u> |  |  |   |       | 77       |          |   |   |
|       | 28       |          | _        | _        |          | -            | <u> </u>  |          | <u> </u>   | <u> </u>   |   |       | 78       |          |   |   |
|       | 29<br>30 |          |          | -        | -        |              |           | -        |  | -  |   |       | 79<br>80 |          |   | _ |
|       | 31       |          |          | -        | $\vdash$ | ┝            | $\vdash$  | ┝        | -  | <del> </del>                                     |   |       | 81       |          |   | _ |
|       | 32       |          |          | -        |          | -            |           | ┝        | _  | <del> </del>                                     |   | _     | 82       |          |   |   |
|       | 33       |          |          | -        | -        | ├─           | -         | -        |  | -  |   |       | 83       |          |   |   |
|       | 34       |          |          |          |          |              |           |          |  | $\vdash$   |   |       | 84       |          |   | _ |
|       | 35       | _        |          |          |          |              |           |          |  | -  |   |       | 85       |          |   |   |
|       | 36       |          |          |          |          |              |           |          |  |  |   |       | 86       |          |   |   |
|       | 37       |          |          |          |          |              |           |          |  |  |   |       | 87       |          |   |   |
|       | 38       |          |          |          |          |              |           |          |  |  |   |       | 88       |          |   |   |
|       | 39       |          |          |          |          |              |           |          |  |  |   |       | 89       |          |   |   |
|       | 40       |          |          |          |          |              |           |          |  |  |   |       | 90       |          |   |   |
|       | 41       |          |          |          |          |              |           |          | L_   | <u> </u>   |   |       | 91       |          |   | _ |
|       | 42       |          |          | ļ        |          |              |           |          |  | ļ  |   |       | 92       |          |   |   |
|       | 43       | <u> </u> |          |          | <u> </u> |              | _         |          | <del> </del>                                     | <u> </u>   |   |       | 93       | -        |   | _ |
|       | 44       |          |          | _        | ļ        |              | H         | _        | -  | <u> </u>   |   |       | 94       |          |   |   |
|       | 45<br>46 | $\vdash$ |          | -        | $\vdash$ | -            | _         |          | <del> </del>                                     | $\vdash$   |   |       | 95<br>96 |          |   | _ |
|       | 46       | $\vdash$ |          | $\vdash$ | $\vdash$ |              | $\vdash$  |          |  |  |   |       | 97       | -        | _ |   |
|       | 48       |          |          | -        | H        | $\vdash$     | $\vdash$  | _        | $\vdash$   | $\vdash$   |   |       | 98       | -        |   | - |
| -     | 49       | -        | -        | -        | $\vdash$ | $\vdash$     | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$   |   |       | 99       | $\vdash$ | - | - |
|       | 50       |          |          | $\vdash$ |          |              |           | $\vdash$ | <del>                                     </del> | <del> </del>                                     |   |       | 100      |          |   | _ |
|       |          |          |          | <u> </u> | Щ.       |              |           | _        | Щ.   | Ь.   |   |       |          |          |   | _ |

| Claim         Date           Tell         Tell           Enterty         Date           101         102           103         104           105         106           107         108           109         110           111         112           113         114           115         116           117         118           119         120           121         122           123         124           125         126           127         128           129         130           131         132           133         134           135         136           137         138           139         140           141         142           143         144           145         146           147         148           149         150 | 0     | nine     |          |              |                                     |   |              |  |          |  |                 |
|---|-------|----------|----------|--------------|-------------------------------------|---|--------------|--|----------|--|-----------------|
| 101   | _ Cla | aim      | Date     |              |                                     |   |              |  |          |  |                 |
| 103   | Final | Original |          |              |                                     | - |              |  |          |  |                 |
| 103   |       | 101      |          |              |                                     |   |              |  |          |  |                 |
| 103   |       | 102      |          |              |                                     |   |              |  |          |  |                 |
| 106   |       | 103      |          |              |                                     |   |              |  |          |  |                 |
| 106   |       | 104      |          |              |                                     |   |              |  |          | L  |                 |
| 108         109         110         111         112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 105      |          |              | L                                   |   |              | _  |          | L  |                 |
| 108         109         110         111         112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 106      |          |              | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _ | _            |  | _        |  |                 |
| 109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   149   |       | 107      |          | <u> </u>     | _                                   |   | _            | _  | _        | _  |                 |
| 111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148         149       149   |       | 100      |          |              |                                     |   |              | _  | _        |  |                 |
| 111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148         149       149   |       | 110      | -        | <del> </del> |                                     |   | <del> </del> |  | H        |  |                 |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 111      |          |              | H                                   |   | $\vdash$     |  |          |  |                 |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 112      |          | Т            |                                     | _ | <u> </u>     |  | -        |  |                 |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 113      |          | <u> </u>     | П                                   |   |              |  | П        |  |                 |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 114      |          |              |                                     |   |              |  |          |  |                 |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 115      |          |              |                                     |   |              |  |          |  |                 |
| 118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 116      |          |              |                                     |   |              |  |          |  |                 |
| 119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 117      | <u> </u> |              | $ldsymbol{ldsymbol{eta}}$           |   | <u> </u>     |  |          | <u> </u>   | Ш               |
| 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148   |       | 118      | _        | _            |                                     |   | <u> </u>     |  | _        | <u> </u>   | $\sqcup$        |
| 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 119      | <u> </u> | ļ            |                                     |   | <del> </del> | <b> </b>   | <u> </u> | <u> </u>   | $\vdash$        |
| 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 120      | <u> </u> | $\vdash$     | $\vdash$                            | _ | <u> </u>     |  |          | ⊢  |                 |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 122      | ⊢        | _            | $\vdash$                            |   |              | _  | -        | ┝  | -               |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 123      | ┢        | -            | -                                   |   | -            | -  |          | -  | Н               |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 124      | -        | $\vdash$     | H                                   |   | $\vdash$     |  |          | <del>                                     </del> |                 |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 125      | $\vdash$ | -            |                                     |   |              |  |          |  |                 |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 126      |          |              |                                     |   |              |  |          |  |                 |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  | -     | 127      |          |              |                                     |   |              |  |          |  |                 |
| 129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 128      |          |              |                                     |   |              |  |          |  |                 |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 129      |          | <u> </u>     | L_                                  |   |              |  |          | <u> </u>   |                 |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 130      | _        | <u> </u>     | L_                                  |   |              |  |          |  | Ш               |
| 133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 131      | <u> </u> |              |                                     |   |              |  |          | <u> </u>   |                 |
| 135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 132      |          | _            | L                                   | _ | <u> </u>     |  | _        | <del> </del>                                     | $\vdash$        |
| 135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 124      |          | <del> </del> |                                     |   | $\vdash$     | <u> </u>   |          | $\vdash$   | Н               |
| 136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 135      | $\vdash$ | ├─           | -                                   |   | ├            | <del>                                     </del> | -        | $\vdash$   | Н               |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 136      | $\vdash$ | $\vdash$     | H                                   |   | $\vdash$     |  |          | <del> </del>                                     | $\vdash$        |
| 138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 137      | Т        |              | Т                                   |   | <b> </b>     |  | Т        | -  | Н               |
| 139   |       | 138      |          |              |                                     |   |              |  |          |  |                 |
| 141   |       | 139      |          |              |                                     |   |              |  |          |  |                 |
| 142<br>143<br>144<br>145<br>146<br>147<br>148   |       |          |          | $\Box$       |                                     |   |              | L.   |          |  |                 |
| 143<br>144<br>145<br>146<br>147<br>148<br>149   |       |          | _        | <u> </u>     | <u> </u>                            |   | <u> </u>     | <u> </u>   |          | _  | Ш               |
| 144<br>145<br>146<br>147<br>148<br>149  |       |          | <u> </u> |              |                                     |   | <u> </u>     | <u> </u>   |          | $\vdash$   | Н               |
| 145<br>146<br>147<br>148<br>149   |       |          |          | _            | $\vdash$                            | _ | <u> </u>     | <u> </u>   |          | <u> </u>   | $\vdash \vdash$ |
| 146<br>147<br>148<br>149  |       |          | <u> </u> | <u> </u>     | -                                   |   | ├            |  | H        | <del> </del>                                     | $\vdash\dashv$  |
| 147<br>148<br>149   |       |          | -        | $\vdash$     | -                                   | — |              | $\vdash$   |          | ├  | $\vdash \vdash$ |
| 148   |       |          | $\vdash$ | <u> </u>     | $\vdash$                            | _ | $\vdash$     | -  | $\vdash$ | $\vdash$   | $\vdash$        |
| 149   |       |          | -        |              | -                                   |   | $\vdash$     | $\vdash$   | H        |  | H               |
|   |       |          | $\vdash$ | $\vdash$     | Н                                   |   | $\vdash$     | H  | Н        | $\vdash$   | Н               |
|   |       |          |          | Г            |                                     | - | Г            | Г  | Т        | Г  | Н               |